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United States Department of Agriculture Agricultural Research Administration Bureau of Entomology and Plant Quarantine B. S. BERRANT OF AGRICULTURE

TRIAL RECORD

LIST OF PRINTED AND PROCESSED PUBLICATIONS ISSUED DURING 1951 and 1952

Department Publications

Circulars

- 864 The Western Pine Beetle--A Serious Enemy of Ponderosa Pine. By John M. Whiteside
- 876 Use of Honey Bees in Alfalfa Seed Production. By George H. Vansell Company of the control of the Real
- 896 Control of the Purple Scale on Citrus With Parathion. By ... Herbert Spencer, Max R. Osburn, and Paul A. Norman the book of arms of the first

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- 903 Stink Bugs on Seed Alfalfa in Southern Arizona. By E. E. Russell
- 906 Improvements in the Control of Ribes by Chemical and Mechanical Methods. By H. R. Offord, V. D. Moss, W. V. Benedict, H. E. Swanson, and A. London

Farmers' Bulletins

- 1780 (Revised) How to Fight the Chinch Bug. By C. M. Packard, Philip Luginbill, Sr., and Curtis Benton
- 1850 (Revised) The Armyworm and Its Control. By W. R. Walton and C. M. Packard
- 1945 (Revised) The Pea Aphid on Peas and Methods for Its Control. Ey J. E. Dudley, Jr., and T. E. Bronson
- 1971 (Revised) The Pea Weevil and Methods for Its Control. By T. A. Erindley, J. C. Chamberlin, and Ralph Schopp
- 2004 (Revised) Controlling the Japanese Beetle. By The Division of Fruit Insect Investigations
- 2040 Control of Potato Insects. By J. E. Dudley, Jr., E. J. Landis, and W. A. Shands

Leaflets

- 186 (Revised) Domestic Mosquitoes. By F. C. Pishopp
- 226 (Revised) The Pepper Weevil. By J. C. Elmore and Roy E. Campbell
- 229 (Revised) The Potato Leafhopper--A Pest of Alfalfa in the Eastern States. By F. W. Poos
- 290 Protection of Turf from Damage by Japanese Beetle Grubs. By W. E. Fleming
- 296 The Redheaded Pine Sawfly. By J. V. Schaffner, Jr.
- 302 Chigger Control. By The Division of Insects Affecting Man and Animals
- 304 Control of the Garden Webworm in Alfalfa. By F. W. Poos
- 308 Control of Lice and Sheep Ticks on Sheep and Goats. By The Division of Insects Affecting Man and Animals, BEPQ and The Zoological Division, EAI
- 309 Preventing Greenbug Outbreaks. By R. G. Dahms
- 315 Barberry Bushes Spread Stem Rust. By The Division of Plant Disease Control
- 316 Control of Hog Lice. By the Division of Insects Affecting Man and Animals, BEPQ and The Zoological Division, BAI
- 319 Control of Lice on Cattle. Ey The Division of Insects Affecting Man and Animals, BEPQ and The Zoological Division, FAI
- 325 Control of the Alfalfa Caterpillar. By The Division of Cereal and Forage Insect Investigations
- 329 Control of Dutch Elm Disease and Elm Phloem Necrosis. By The Division of Forest Insect Investigations, BEPQ and The Division of Forest Pathology, EPISAE

Miscellaneous Publications

- 605 (Revised) Vegetable Gardners' Handbook on Insects and Diseases.
 Py W. H. White and S. P. Doolittle
- 273 (Revised) Insect Enemies of Western Forests. By F. P. Keen

Picture Sheets

9 (Revised) Imported Cabbageworm.

Program Aids

- 149 Grasshopper Control with Aldrin, Chlordane, and Toxaphene. By Claude Wakeland and J.R. Parker (Revised 1952 by J.R. Parker)
- 184 The Golden Nematode--A New Potato Menance. Bureau of Ento-mology and Plant Quarantine

Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1951

Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1952

Service and Regulatory Announcements

List of Intercepted Plant Pests, 1949. Compiled by W. H. Wheeler, Judith Hunt, and P. X. Peltier

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List of Intercepted Plant Pests, 1950. Compiled by W. H. Wheeler, Judith Hunt, and P. X. Peltier

List of Intercepted Plant Pests, 1951. Compiled by Judith Hunt

Insect Pest Survey

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- Special Supplement (1951, No.1) Status of the European Corn Borer in 1950. By E. W. Peck
- Special Supplement (1951, No.2) Status of the Southwestern Corn Borer in Kansas, Oklahoma, Missouri, and Arkansas in the Fall of 1950. By H. H. Walkden and G. D. White
- Special Supplement (1951, No. 3) Estimates of Damage by the European Corn Borer to Field Corn in the United States in 1950. By E.W. Beck

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- Special Supplement (1951, No. 4) The More Important Forest Insects in 1950--A Summary. Division of Forest Insect Investigations
- . Special Supplement (1951, No. 5) Status of Imported Parasites of the Japanese Beetles in 1950. J. L. King, L. B. Parker, and H. J. Willard

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Special Supplement (1951, No. 6) Screw-worm Survey in Western United States, 1950. Ey E. W. Laake

Technical Eulletins

- 1030 Dissemination of the Beet Leafhopper in California. By Francis R. Lawson, Joseph C. Chamberlin, and George T. York
- 1034 Effect on Truck Crops of DDT Applied to the Foliage. By C. A. Weigel, A. C. Foster, and R. H. Carter
- 1036 Parasites of the Lima-Bean Pod Forer in Europe. By Harry L. Parker
- 1039 Effect of Winter Cover Crops on Wireworm Injury to the Dry Lima Fean Crop. By M. W. Stone
- 1045 Evaluation of Fumigants for Control of Insects Attacking Wheat and Corn in Steel Eins. By H. H. Walkden and R. E. Schwitzgebel
- 1047 Effect of Soil Treatments with DDT, Benzene Hexachloride, and Toxaphene on Tobacco, Cotton, and Cowpeas. By Norman Allen, Floyd Bondy, J. F. Eullock, and E. E. Hall
- 1052 Classification of the Ortheziidae--Supplement to Classification of Scale Insects of the Subfamily Ortheziinae. By Harold Morrison

Agricultural Monograph Series No. 2

Hymenoptera of America North of Mexico. Synoptic Catalog. Prepared under the direction of C. F. W. Muesebeck, Karl V. Krombein, and Henry K. Townes

E-Series

517 (Revised) Conversion Tables and Equivalents for Use in Work Relating to Insect Control. By R. H. Nelson

- 762 (Revised) The New Insecticides for Controlling External Parasites of Livestock. Compiled by E. F. Knipling
- 780 (Revised) DDT Sprays for Control of the Corn Earworm and the Eudworm in Sweet Corn. Ey R. A. Flanchard, W. A. Douglas, G. P. Wene, and O. B. Wooten
- 812 List of Entomological (E-Series) Publications 782 to 811. Compiled by the Division of Insect Survey and Information

E-Series

- 813 EQ 335 and Other Wound Treatments for Screw-worm Control.

 Prepared by the Division of Insects Affecting Man and Animals
- 814 Supplemental List of Publications on Liquefied-Gas Aerosols.

 By R. A. Fulton
- Preliminary Tests of Some Hydrazides and Hydrazones as Insecticides. By G. T. Bottger, A. P. Yerington, and S. I. Gertler
- 816 Colonization of the Organism Causing Milky Disease of Japanese Beetle Larvae, 1939-1949. By R. T. White and P. J. McCabe
- 817 A Digest of Information on Chlordane. By R. C. Roark
 - 818 Development of Insect Resistance to Insecticides-II A Critical Review of the Literature up to 1951. By Frank H. Babers and John J. Pratt, Jr.
 - 819 Controlling Grasshoppers in Alfalfa with Chlordane and Toxaphene Sprays. By R. L. Shotwell
 - 820 Tests with Benzene Hexachloride for the Control of Insects Attacking Peanuts, 1946-1949. By F. W. Poos, T. N. Dobbins, E. T. Batten, and G. M. Boush
 - 821 Experiments with Toxaphene Against the Japanese Beetle. By
 Walter E. Fleming and Warren W. Maines
 - 822 Studies of Improving the Distribution of Hydrocyanic Acid in Citrus Fumigation. By Harold R. Yust

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- 823 Airplane Spraying for Forest Pest Control. By J. S. Yuill, C. B. Eaton, and D. A. Isler
- 824 Application of Concentrated Spray with Hand Equipment. Ey S. F. Potts
- 825 Field-Plot Tests of Insecticides Against the Egyptian Alfalfa Weevil on Alfalfa in Southern Arizona, 1950. By E. E. Russell and O. L. Barnes
 - 826 Preliminary Tests of Synthetic Organic Compounds as Insecticides.
 Part VII. By G. T. Bottger, A. P. Yerington, and S. I. Gertler

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- 827 Cold Storage to Control the Cigarette Beetle in Cigar Tobaccos.

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- 829 Persistence of Chlorinated Hydrocarbon Insecticides in Turf Treated to Control the Japanese Beetle. By Walter E. Fleming, Warren W. Maines, and Leon W. Coles
- 830 Determining the Efficiency of Respiratory Cartridges and Gas-Mask Canisters Against Dusts and Sprays. Ey R. A. Fulton, M. S. Konecky, and Floyd F. Smith
- 831 Tests with Insecticides for Control of Lygus Eugs on Alfalfa in Southern Arizona, 1949-1950. By E. E. Russell and O. L. Earnes
- 832 Chemical and Physical Properties of Organic Phosphorus Insecticides. By Fred I. Edwards
- · 833 Nicotine Insecticides -- Part VI--Search for Synergists (Continued).

 By E. L. Mayer, R. H. Nelson, Carl E. Robertson, and J. J.

 Willaman
 - 834 Value of Auxiliary Materials in Rotenone and Pyrethrum Insecticides for Control of Cabbage Caterpillars. By W. J. Reid, Jr., and F. P. Cuthbert, Jr.
 - 835 Directions for Industrial Use of Aerosols. By A. H. Yoemans
 - 836 Nicotine Insecticides. Part VII-Search for Synergists (Continued). Ey E. L. Mayer, Carl Robertson, R. H. Nelson, and C. F. Woodward
 - 837 Preliminary Tests with Certain m-Nitrobenzamides for Synergistic Action in Allethrin Fly Sprays. By S. I. Gertler, W. A. Gersdorff, and Norman Mitlin
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- 839 Effect of DDT and Chlordane Applied to Control Japanese Beetle Larvae on the Yield of Grass, Rye, Soybeans, and Corn. Ey W. E. Fleming and W. W. Maines
- 840 Laboratory Tests of Toxicity of Some Organic Compounds to the European Corn Corer, 1947 to 1952. By D. D. Questel and S. I. Gertler
- 841 The Larch Sawfly Epidemic in the Lake States Surveys and Spraying Experiments in 1949 and 1950. By James W. Butcher and Charles B. Eaton
- 842 Effects of Drying Procedures, Plant Growth, and Weathering on Insecticide Residues on Sprayed Alfalfa. By F. W. Poos, T. N. Dobbins, R. H. Carter, P. E. Hubanks, Ray E. Ely, and L.A. Moore
- 843 The Relative Toxicity to House Flies of Endrin and Isodrin in Kerosene Sprays. By W. A. Gersdorff, Norman Mitlin, and R. H. Nelson
- 844 Notes on Lyctidae (Coleoptera). By Ross H. Arnett, Jr.
- 845 Tests with Sprays for Controlling Grasshoppers on Farm Lands in North Dakota and Texas, 1950-51. By R. L. Shotwell
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 By B. I. Sparr
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850 Experiments in Preventing the Build-up of Insects in Newly Harvested Wheat. By Gailen D. White

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- 16 Control of the Pea Aphid in the East. By J. E. Dudley, Jr. and T. E. Bronson
- 17 The Imported Fire Ant. Prepared by the Division of Insects Affecting
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- 18 The Red Harvester Ant. Prepared by the Division of Cereal and Forage Insect Investigations
 - 19 DDT for Control of Wireworms in Irrigated Lands. By Merton C. Lane and M. W. Stone
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 - 21 Control of Aphids on Shade-Grown Tobacco. Py F. S. Chamberlin
 - 22 Control of Cantaloup Insects in the Salt River Valley of Arizona.

 By Orin A. Hills and Edgar A. Taylor
 - 23 Control of the Southern Corn Rootworm on Peanuts. By F. W. Poos and W. L. Howe
- 24 Insect Control in the Country Wheat Elevator. By R. T. Cotton and H. H. Walkden
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 - 26 Protection Against Mosquitoes in Mountain Recreational Camps.
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- 27 Control of Insects that Attack Dried Beans and Peas in Storage.

 By H. D. Nelson and C. K. Fisher

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- 292 List of Entomological Technique (ET-Series) Publications 271 to 291.

 Compiled by the Division of Insect Survey and Information
- 293 A Laboratory Spray Chamber for Producing Deposits of Limited Drop Size. By C. F. Eaton and J. P. Secrest
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- 298 Soil Sampler. By V. A. Johnson and W. L. Caskey
- 299 Solid Stream Nozzle for Spraying Standing Trees Infested with Bark Beetles. By Tom T. Terrell
- 300 The Importance of Associating Reared Adults with Their Immature Stages. By Curtis W. Sabrosky
- 301 Rearing Cockroaches for Experimental Purposes. By P. G. Piquett and J. H. Fales
- 302 Elementary Sampling Principles in Entomology. By F. M. Wadley
- 303 A Technique for Rearing Certain Hemiptera. By R. I. Sailer
- 304 A Frameless Insect Cage for Use on Trees. By Robert Z. Callaham and John M. Miller

Cotton Conference Report

Cotton Insect Research and Control - Memphis, Tennessee, December 7-9, 1952.

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